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smaller pieces, one would eventually reach a point where the pieces could not be further cut into anything smaller.

Atomic theory - Wikipedia

Quantum entanglement has been

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demonstrated experimentally with photons, neutrinos, electrons, molecules as large as buckyballs, and even small diamonds. [17]

[18] The utilization of entanglement in communication , computation and quantum radar is a very active area of research and

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pancake-shaped traps formed from laser light (called an optical lattice), tightly confining the ...

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As part of the Physics 2010
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Molecules (AMO) science and technology. In particular, the National Research Council was asked to cover the state of AMO science, emphasizing recent ...

Controlling the Quantum World:

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The Science of Atoms Nuclei

So, quantum clocks usually track a gas made up of thousands of atoms of the same type – traditionally cesium, although ytterbium is emerging as a new frontrunner in recent years. These atoms are ...

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Quantum-entangled atomic clock
keeps spookily accurate time
Both of these approaches created
molecules in precisely
characterized quantum states,
using lasers to associate the
atoms. In one case, the excited

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molecules quickly decayed into other states, which were undetectable (see Meetings: Building a Molecule Atom by Atom). In the other case, the lasers that were used to make the molecules then destroyed them before the team could make

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measurements (see Focus: A
Quantum Molecular Assembler).

The latest method overcomes both
of these problems ...

Physics - Longer Lived Molecules
Researchers have demonstrated a

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Molecules molecular assembly—
And Particles
a device that takes individual atoms as inputs and merges them into a molecule in a desired quantum state. The team used lasers to trap and cool one sodium (Na) atom and one cesium (Cs) atom, bring them together, and merge them

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into an NaCs molecule in a specific quantum state.

Physics - A Quantum Molecular
Assembler

At the quantum scale, atoms can
spin clockwise or

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counterclockwise, which gives them an orientation, like a compass needle. In magnetic materials, the spin of many atoms can show a variety of phenomena, including equilibrium states, where atom spins are aligned, and dynamic behavior, where the spins across

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many atoms resemble a wave-like
pattern.

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